

IN THE CLAIMS:

Please amend claims 1, 3, 5, 7, 9, 11, 15-17, 22-23, and 26 as follows.

1. (Currently Amended) A method, comprising:

determining, at an apparatus, an current first parameter value~~old~~ fixed codebook gain correction factor $\hat{\gamma}_{gc}^{old}$ from an index corresponding to a fixed codebook gain~~first parameter~~, wherein a coded audio signal comprises indices that represent audio signal parameters comprising at least the fixed codebook gain ~~first parameter~~ representing a first characteristic of the audio signal and an second parameter~~adaptive codebook gain~~;

adjusting the current first parameter value~~old~~ fixed codebook gain correction factor $\hat{\gamma}_{gc}^{old}$ in order to achieve an enhanced first characteristic, thereby obtaining an enhanced first parameter value~~desired gain~~ $\beta \cdot \hat{\gamma}_{gc}^{old}$;

determining an current second parameter value~~old~~ adaptive codebook gain value g_{p_old} from the index further corresponding to the second parameter~~adaptive codebook gain~~; and

determining a new index value from a table relating index values to first parameter values~~fixed codebook gain correction factors~~ and relating the index values to adaptive codebook gain~~second parameter values~~ by minimizing an error $|\beta \cdot \hat{\gamma}_{gc}^{old} - \hat{\gamma}_{gc}^{new}|$ between the enhanced first parameter value~~desired gain~~ and a new first parameter value~~new fixed~~

codebook gain correction factor $\hat{\gamma}_{gc}^{new}$ corresponding to the new index value such that no audible error is introduced to a ~~new second parameter value~~ new adaptive codebook gain value g_{p_new} corresponding to the new index value.

2. (Cancelled)

3. (Currently Amended) The method according to claim 1, further comprising:
replacing a current value of the index corresponding to at least the ~~first parameter~~ fixed codebook gain by the determined new index value.

4. (Previously Presented) The method according to claim 1, further comprising:
detecting a current background noise parameter index value; and
determining a new background noise parameter index value corresponding to the first enhanced characteristic.

5. (Currently Amended) The method according to claim 1, further comprising:
determining the new index value from the table such that a substantial match of the ~~current second parameter value~~ old adaptive codebook gain value has precedence.

6. (Cancelled)

7. (Currently Amended) An apparatus, comprising:

a parameter value determiner configured to determine an ~~current first parameter value~~ old fixed codebook gain correction factor $\hat{\gamma}_{gc}^{old}$ from an index corresponding to a ~~first parameter~~ fixed codebook gain and determine an ~~current second parameter value~~ old adaptive codebook gain value g_{p_old} from the index further corresponding to an adaptive codebook gain ~~second parameter~~, wherein a coded audio signal comprises indices that represent audio signal parameters comprising at least the ~~first parameter~~ fixed codebook gain representing a first characteristic of the audio signal and the ~~second parameter~~ adaptive codebook gain;

an adjuster configured to adjust the ~~current first parameter value~~ old fixed codebook gain correction factor in order to achieve an enhanced first characteristic, thereby obtaining an ~~enhanced first parameter value~~ desired gain $\beta \cdot \hat{\gamma}_{gc}^{old}$; and

an index value determiner configured to determine a new index value from a table relating index values to ~~first parameter values~~ fixed codebook gain correction factors and relating the index values to ~~second parameter~~ adaptive codebook gain values by minimizing an error $|\beta \cdot \hat{\gamma}_{gc}^{old} - \hat{\gamma}_{gc}^{new}|$ between the ~~enhanced first parameter value~~ desired gain and a ~~new first parameter value~~ new fixed codebook gain correction factor $\hat{\gamma}_{gc}^{new}$ corresponding to the new index value such that no audible error is introduced to a ~~new~~

~~second parameter value~~new adaptive codebook gain value g_{p_new} corresponding to the new index value.

8. (Cancelled)

9. (Currently Amended) The apparatus according to claim 7, further comprising:
a replacer configured to replace a current value of the index corresponding to at least the ~~first parameter~~fixed codebook gain by the determined new index value.

10. (Previously Presented) The apparatus according to claim 7, further comprising:
a detector configured to detect a current background noise parameter index value;
and
a determiner configured to determine a new background noise parameter index value corresponding to the enhanced first characteristic.

11. (Currently Amended) The apparatus according to claim 7, wherein the index value determiner is configured to determine the new index value from the table such that substantially matching the ~~current second parameter value~~old adaptive codebook gain value has precedence.

12.-14. (Cancelled)

15. (Currently Amended) A method, comprising:

determining, at an apparatus, an ~~current first parameter value~~ old fixed codebook gain correction factor $\hat{\gamma}_{gc}^{old}$ from an index corresponding to a ~~first parameter~~ fixed codebook gain, wherein a coded audio signal comprises indices that represent audio signal parameters comprising at least the ~~first parameter~~ fixed codebook gain representing a first characteristic of the audio signal, an adaptive codebook gain ~~second parameter~~ and a background noise parameter;

adjusting the ~~current first parameter value~~ old fixed codebook gain correction factor in order to achieve an enhanced first characteristic, thereby obtaining an ~~enhanced first parameter value~~ desired gain $\beta \cdot \hat{\gamma}_{gc}^{old}$;

determining an ~~current second parameter value~~ old adaptive codebook gain value g_{p_old} from the index further corresponding to the ~~second parameter~~ adaptive codebook gain;

determining a new index value from a table relating index values to ~~first parameter values~~ fixed codebook gain correction factors and relating the index values to ~~second parameter~~ adaptive codebook gain values by minimizing an error $|\beta \cdot \hat{\gamma}_{gc}^{old} - \hat{\gamma}_{gc}^{new}|$ between the ~~enhanced first parameter value~~ desired gain and a ~~new first parameter value~~ new fixed

codebook gain correction factor $\hat{\gamma}_{gc}^{new}$ corresponding to the new index value such that no audible error is introduced to a ~~new second parameter value~~ new adaptive codebook gain value g_{p_new} corresponding to the new index value;

detecting a current background noise parameter index value; and

determining a new background noise parameter index value corresponding to the enhanced first characteristic.

16. (Currently Amended) An apparatus, comprising:

parameter value determination means for determining an ~~current first parameter value~~ old fixed codebook gain correction factor $\hat{\gamma}_{gc}^{old}$ from an index corresponding to a ~~first parameter~~ fixed codebook gain and for determining an ~~current second parameter value~~ old adaptive codebook gain value g_{p_old} from the index further corresponding to an ~~adaptive codebook gain second parameter~~, wherein a coded audio signal comprises indices that represent audio signal parameters comprising at least the ~~first parameter~~ fixed codebook gain representing a first characteristic of the audio signal, the ~~second parameter~~ adaptive codebook gain and a background noise parameter;

adjusting means for adjusting the ~~current first parameter value~~ old fixed codebook gain correction factor in order to achieve an enhanced first characteristic, thereby obtaining an ~~enhanced first parameter value~~ desired gain $\beta \cdot \hat{\gamma}_{gc}^{old}$;

index value determination means for determining a new index value from a table relating index values to ~~first parameter values~~ fixed codebook gain correction factors and relating the index values to ~~second parameter~~ adaptive codebook gain values by minimizing an error $\left| \beta \cdot \hat{\gamma}_{gc}^{old} - \hat{\gamma}_{gc}^{new} \right|$ between the ~~enhanced first parameter value~~ desired gain and a ~~new first parameter value~~ new fixed codebook gain correction factor $\hat{\gamma}_{gc}^{new}$ corresponding to the new index value such that no audible error is introduced to a ~~new second parameter value~~ new adaptive codebook gain value g_{p_new} corresponding to the new index value;

detecting means for detecting a current background noise parameter index value;
and

determining means for determining a new background noise parameter index value corresponding to the enhanced first characteristic.

17. (Currently Amended) A computer program embodied on a computer-readable medium comprising a program code configured to control a processor to execute a process of enhancing a coded audio signal comprising indices which represent audio signal parameters which comprise at least a ~~first parameter~~ fixed codebook gain representing a first characteristic of the audio signal and an ~~second parameter~~ adaptive codebook gain, the process comprising:

determining an ~~current first parameter value~~ old fixed codebook gain correction

factor $\hat{\gamma}_{gc}^{old}$ from an index corresponding to a first parameter fixed codebook gain;

adjusting the current first parameter value old fixed codebook gain correction factor in order to achieve an enhanced first characteristic, thereby obtaining an enhanced first parameter value desired gain $\beta \cdot \hat{\gamma}_{gc}^{old}$;

determining an current second parameter value old adaptive codebook gain value g_{p_old} from the index further corresponding to an second parameter adaptive codebook gain; and

determining a new index value from a table relating index values to fixed codebook gain correction factors first parameter values and relating the index values to second parameter adaptive codebook gain values, by minimizing an error $|\beta \cdot \hat{\gamma}_{gc}^{old} - \hat{\gamma}_{gc}^{new}|$ between the enhanced first parameter value desired gain and a new first parameter value new fixed codebook gain correction factor $\hat{\gamma}_{gc}^{new}$ corresponding to the new index value such that no audible error is introduced to a new second parameter value new adaptive codebook gain value g_{p_new} corresponding to the new index value.

18. (Cancelled)

19. (Previously Presented) The computer program according to claim 17, wherein said computer program is directly loadable into an internal memory of the computer.

20. - 21. (Cancelled)

22. (Currently Amended) A computer program embodied on a computer-readable medium comprising a program code configured to control a processor to execute a process of enhancing a coded audio signal comprising indices which represent audio signal parameters which comprise at least a ~~first parameter~~fixed codebook gain representing a first characteristic of the audio signal, an adaptive codebook gain~~second parameter~~ and a background noise parameter, the process comprising:

determining an ~~current first parameter value~~old fixed codebook gain correction factor $\hat{\gamma}_{gc}^{old}$ from an index corresponding to a ~~first parameter~~fixed codebook gain;

adjusting the ~~current first parameter value~~old fixed codebook gain correction factor in order to achieve an enhanced first characteristic, thereby obtaining an ~~enhanced first parameter value~~desired gain $\beta \cdot \hat{\gamma}_{gc}^{old}$;

determining an ~~current second parameter value~~old adaptive codebook gain value g_{p_old} from the index further corresponding to an adaptive codebook gain~~second parameter~~;

determining a new index value from a table relating index values to fixed codebook gain correction factors~~first parameter values~~ and relating the index values to ~~second parameter~~adaptive codebook gain values by minimizing an error $|\beta \cdot \hat{\gamma}_{gc}^{old} - \hat{\gamma}_{gc}^{new}|$

between the ~~enhanced first parameter value~~desired gain and a ~~new first parameter value~~new fixed codebook gain correction factor $\hat{\gamma}_{gc}^{new}$ corresponding to the new index value such that no audible error is introduced to a ~~new second parameter value~~new adaptive codebook gain value g_{p_new} corresponding to the new index value;

detecting a current background noise parameter index value; and

determining a new background noise parameter index value corresponding to the enhanced first characteristic.

23. (Currently Amended) An apparatus, comprising:

parameter value determination means for determining an ~~current first parameter value~~old fixed codebook gain correction factor $\hat{\gamma}_{gc}^{old}$ from an index corresponding to a ~~first parameter~~fixed codebook gain and determining an ~~current second parameter value~~old adaptive codebook gain value g_{p_old} from the index further corresponding to an ~~adaptive codebook gain~~second parameter, wherein a coded audio signal comprises indices that represent audio signal parameters comprising at least the ~~first parameter~~fixed codebook gain representing a first characteristic of the audio signal and the ~~adaptive codebook gain~~second parameter;

adjusting means for adjusting the ~~current first parameter value~~old fixed codebook gain correction factor in order to achieve an enhanced first characteristic, thereby

obtaining an enhanced ~~first parameter value~~ desired gain $\beta \cdot \hat{\gamma}_{gc}^{old}$; and

index value determination means for determining a new index value from a table relating index values to ~~first parameter values~~ fixed codebook gain correction values and relating the index values to ~~second parameter~~ adaptive codebook gain values by minimizing an error $|\beta \cdot \hat{\gamma}_{gc}^{old} - \hat{\gamma}_{gc}^{new}|$ between the ~~enhanced first parameter value~~ desired gain and a ~~new first parameter value~~ new fixed codebook gain correction factor $\hat{\gamma}_{gc}^{new}$ corresponding to the new index value such that no audible error is introduced to a ~~new second parameter value~~ new adaptive codebook gain value g_{p_new} corresponding to the new index value.

24.-25. (Cancelled)

26. (Currently Amended) An apparatus, comprising:

a parameter value determiner configured to determine an ~~current first parameter value~~ old fixed codebook gain correction factor $\hat{\gamma}_{gc}^{old}$ from an index corresponding to a ~~first parameter~~ fixed codebook gain and determine an ~~current second parameter value~~ old adaptive codebook gain value g_{p_old} from the index further corresponding to an adaptive codebook gain ~~second parameter~~, wherein a coded audio signal comprises indices that represent audio signal parameters comprising at least the ~~first parameter~~ fixed codebook

gain representing a first characteristic of the audio signal, the ~~second parameter~~adaptive
codebook gain and a background noise parameter;

an adjuster configured to adjust the ~~current first parameter value~~old fixed
codebook gain correction factor in order to achieve an enhanced first characteristic,
thereby obtaining an ~~enhanced first parameter value~~desired gain $\beta \cdot \hat{\gamma}_{gc}^{old}$;

an index value determiner configured to determine a new index value from a table
relating index values to ~~first parameter values~~fixed codebook gain correction factors and
relating the index values to ~~second parameter~~adaptive codebook gain values by
minimizing an error $|\beta \cdot \hat{\gamma}_{gc}^{old} - \hat{\gamma}_{gc}^{new}|$ between the ~~enhanced first parameter value~~desired gain
and a ~~new first parameter value~~new fixed codebook gain correction factor $\hat{\gamma}_{gc}^{new}$
corresponding to the new index value such that no audible error is introduced to a ~~new~~
~~second parameter value~~new adaptive codebook gain value g_{p_new} corresponding to the
new index value;

a detector configured to detect a current background noise parameter index value;
and

a determiner configured to determine a new background noise parameter index
value corresponding to the enhanced first characteristic.